

**BY ORDER OF THE COMMANDER
AIR FORCE SPACE COMMAND**



**AIR FORCE SPACE COMMAND INSPECTION
CHECKLIST 15-2**

1 FEBRUARY 1999

Satellite Command and Control

**SATELLITE COMMAND AND CONTROL
OPERATIONS (MAJCOM/NAF/WING) (ORI)**

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This Checklist reflects Command requirements for Satellite Command and Control Operations at HQ AFSPC, NAF and Wing levels to prepare for and conduct internal reviews.

SUMMARY OF REVISIONS

Updates publication in its entirety.

1. Four AFSPCSIGs have been combined to create one checklist. Wording has been changed to reflect current AFSPCI 10-120104 guidance. The critical unit level areas contained in AFSPC SIG 90-2068 have been added as wing responsibilities were applicable, because AFSPCI 10-120104 does not provide unit level guidance.
2. References have been provided for each critical item. Critical items have been kept to a minimum, and are related to public law, safety, fiscal responsibility, and/or mission accomplishment. Asterisk critical items are the items if not accomplished in support of primary missions could result in an overall MAJCOM/NAF/Wing assessment rating of less than satisfactory. Compliance with non-critical items is not rated, these items help gauge the effectiveness/efficiency of the function.
3. This publication establishes a baseline checklist. The checklist will also be used by the Command IG during applicable assessments. Use the checklist at **Attachment 1** as a guide only. Add to or modify each area as needed, to ensure an effective and thorough review of a unit's Satellite Command and Control Operations program.

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Director of Operations

Attachment 1

SATELLITE COMMAND AND CONTROL OPERATIONS INSPECTION CHECKLIST (MAJ-COM/NAF/WING) (ORI)

Table A1.1. Checklist.

SECTION 1: HQ AIR FORCE SPACE COMMAND			
MISSION STATEMENT: Provide operations policy and guidance to the Numbered Air Forces (NAF) and Space Wings (SW). <i>Note:</i> All references are from AFSPCI 10-120104, 1 September 1998, unless otherwise noted			
1.1. CRITICAL ITEMS:	YES	NO	N/A
1.1.1. Does HQ AFSPC develop and provide command doctrine, policy, requirements, and guidance for satellite telemetry, tracking and commanding (TT&C), operation and command and control of the Air Force Satellite Control Network (AFSCN), configuration control, and upchannel reporting? (para 1.1.1.)			
1.1.2. Are Status of Resources and Training System (SORTS) reports reviewed monthly for changes in unit capabilities and readiness and provide assistance to units as required? (para 1.1.10.)			
1.1.3. Are procedures in place which, in conjunction with the Space Wing, develops a transition plan to integrate command and control systems to the assigned space wing and develop crew training, evaluation, and operational procedures in preparation for normal operations? (para 5.1.2.)			
1.2. NON-CRITICAL ITEMS:	YES	NO	N/A
1.2.1. Is resource management provided to include funding advocacy for operations, maintenance, modernization, and new programs? (para 1.1.2.)			
1.2.2. Are Operations Protection Guides maintained for each operational program? (para 1.1.5.)			
1.2.3. Are Concepts of Operations (CONOPS) developed in support of satellite operations? (para 1.1.8.)			
SECTION 2: NAF			
MISSION STATEMENT: Provide Space Wing with support necessary to ensure timely and precise Satellite Command and Control functions in support of USSPACECOM, NORAD, THEATER CINC's and FORWARD USERS			
2.1. CRITICAL ITEMS:	YES	NO	N/A
2.1.1. Does 14 AF have current Operations Plans for space operations which describe 50 SW and 21 SW participation throughout the spectrum of conflict for the necessary Areas of Responsibilities? (Joint Pub 5-03.1 JOPES Vol 1)			

2.1.2. Does 14 AF operations include inputs from 50 SW, 21 SW and space operations squadrons planning when responding to crisis situations? (Joint Pub 5-03.1 JOPEs Vol 1)			
2.1.3. Does 14 AF operations provide timely and effective dissemination of warning, planning, alert, and execute orders to the 50 SW and 21 SW and space operations squadrons? (Joint Pub 5-03.1 JOPEs Vol 1)			
2.1.4. Does 14 AF operations provide timely space operations considerations to USSPACECOM in the role of AFSPACE during crisis situations? (Joint 5-03.1.1 JOPEs Vol 1)			
2.1.5. Does 14 AF operations ensure timely space operations support, in the AFSPACE role, by deploying Space Support Teams to appropriate AF Theater Components in times of crisis? (Joint Pub 5-03.1 JOPEs Vol 1)			
2.1.6. Does 14 AF manage the Satellite Constellation Sustainment Assessment Team to ensure mission Designed Operational Capabilities requirements are met? (Joint Pub 5-03.1 JOPEs Vol 1)			
2.1.7. Does 14 AF ensure the readiness of assigned forces; prepare forces for deployment and employment; and exercise operational control of assigned forces? (para 1.7.1.)			
2.2. NON-CRITICAL ITEMS:	YES	NO	N/A
2.2.1. Does 14 AF provide operational guidance to SWs pertaining to prioritization of satellite command and control in support of theater operations, routine and emergency satellite relocation, operational status changes and disposal actions? (para 1.7.2.)			
2.2.2. Is 14 AF responsible for operational tasking to the SW for each satellite program supported or operated by AFSPC? (para 1.7.3.)			
2.2.3. Does 14 AF maintain Operational Control (OPCON) over GPS, DSP, DMSP, DSCS, Milstar, the AFSCN, spacelift infrastructure and IUS? (para 1.7.1.)			
2.2.4. Does 14 AF accept SCA for all satellites over which they maintain OPCON and delegate SCA to the appropriate SW for day-to-day operations? (para 1.7.5.)			
2.2.5. Does the 14 AF deliberate joint operation planning process include inputs from 50 SW, 21 SW and Space Operations Squadrons? (Joint Pub 5-03.1 JOPEs Vol 1, AFR 28-3)			
2.2.6. Does 14 AF operations include the space operations mission when planning and participating in joint, combined, and unified training exercises? (Joint Pub 5-03 JOPEs Vol 1, AFR 28-3)			

SECTION 3: WING			
MISSION STATEMENT: Command and control operational Department of Defense satellites and manage the worldwide Air Force Satellite Control Network (AFSCN)			
3.1. CRITICAL ITEMS:	YES	NO	N/A
3.1.1. Does the wing/operations group plan for and provide continuous satellite operations at all levels of conflict? (para 1.8.2)			
3.1.2. Does the wing/operations group ensure compliance with operational reporting requirements? (para 1.8.3)			
3.1.3. Does the wing/operations group ensure common operations procedures and policies are standardized among its units (excluding operations conducted by contractors)? (para 1.8.8)			
3.1.4. Does the wing/operations group ensure squadrons relinquishing Satellite Control Authority (SCA) provide the following information to the accepting squadron as soon as it is operationally feasible: (para 1.8.13)			
3.1.4.1. Expected transfer duration?			
3.1.4.2. Current spacecraft operational configuration?			
3.1.4.3. Schedule of planned supports and other spacecraft maintenance activities?			
3.1.4.4. Operational documentation as required?			
3.1.4.5. 24 hour points of contact for engineering and technical assistance?			
3.1.5. Does the wing/operations group develop/implement procedures to conduct contingency operations for the following: (para 4.2.1 - 4.2.4)			
3.1.5.1. Operate and correct malfunctioning SVs consistent with technical guidance provided by the SPOs, external agencies, and SV and ground system contractors?			
3.1.5.2. Perform routine analysis of SVs telemetry to detect and report SV intrusion and or interference in a timely manner?			
3.1.5.3. Provide continuity of operations for SV control, in accordance with the AFSPC CONOPS for Satellite Operations, Appendix C "Backup Operations," in the event of natural or man-made disasters at the primary Space Operations Centers (SOC)?			
*3.1.5.4. Ensure satellite and ground system emergencies are detected and handled effectively?			

3.1.6. Does the wing operate SV according to higher headquarters direction? (para 4.1.1)			
3.1.7. Does the wing perform pre-launch SV command and telemetry compatibility checkout? (para 4.1.2)			
3.1.8. Does the wing ensure that the AFSCN will be able to properly communicate with the spacecraft before launch? (para 4.1.2)			
3.1.9. Does the wing/operations group support launch operations as required to ensure the following: (para 4.1.4)			
3.1.9.1. Tracking and monitoring the launch vehicle through boost and operations checkout?			
*3.1.9.2. Satellites are correctly transferred from initial to operational orbits?			
3.1.9.3. The LEO Team works effectively to resolve satellite anomaly situations?			
3.1.10. Does the wing/operations group conduct the following activities for on-orbit TT&C operations to evaluate SV status, and payload operations as required: (para 4.1.5)			
*3.1.10.1. Satellite payload configuration/calibration to meet end user's requirements?			
3.1.10.2. Accurate and timely satellite commands?			
3.1.10.3. Relocation maneuvers, and station keeping functions throughout the useful life of the SV?			
*3.1.11. Does the wing develop/implement procedures to monitor the status of each subsystem, and maintain and analyze available SV telemetry, throughout the useful life of each SV? (para 4.1.6)			
*3.1.12. Does the wing analyze collected data to detect trends, degradation, or anomalies and develop/implement procedures and recommend changes to minimize the effects of anomalies? (para 4.1.6)			
3.1.13. Does the wing/operations group conduct space system anomaly and trend analysis in accordance with HQ AFSPC direction? (para 4.1.9)			
3.2. NON-CRITICAL ITEMS:	YES	NO	N/A
3.2.1. Does the wing/operations group develop financial plans and identify new program requirements? (para 1.8.1)			
3.2.2. Does the wing/operations group review, approve, and execute maintenance programs in compliance with maintenance policies? (para 1.8.4)			

3.2.3. Does the wing/operations group identify, review, approve, and forward deficiencies, improvement and modernization requirements, and new mission requirements to HQ AFSPC? (para 1.8.5)			
3.2.4. Does the wing/operations group develop control procedures to implement the configuration control program, IAW AFSPC and AFMC directives and/or agreements? (para 1.8.6)			
3.2.5. Does the wing/operations group develop procedures to interface with owners/operators and other external agencies? (para 1.8.7)			
3.2.6. Does the wing/operations group assume SCA from 14 AF for assigned operational missions? (para 1.8.12)			
3.2.7. Does the wing/operations group ensure gaining and losing organizations record date and time of SCA transfers and names of authorizing officials in permanent operations logs? (para 1.8.14)			
3.2.8. Does the wing/operations group supplement higher headquarters operational directives and provide timely dissemination to space operations squadrons? (para 1.8.15)			
3.2.9. Does the wing/operations group provide Common User Network services and support to Air Force, DoD, NASA, and other authorized users? (para 4.1.7)			